



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

07.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.03.2014	07.04.2014	8.110	479.5	21.31
2	10.03.2014	07.04.2014	8.263	508.6	22.60
3	10.03.2014	07.04.2014	8.332	518.2	23.03

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

09.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Agency : Technical Manager (West), KRIDL, Bangalore.
 Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
 Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
 Sample ID : Road Concrete
 Size of cubes : 150mmx150mmx150mm
 Cross Sectional Area : 22500 mm²
 Technical Reference : IS: 516-1959 (Reaffirmed 2008)
 Grade of Concrete : M₂₀
 Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.03.2014	09.04.2014	8.130	485.5	21.58
2	12.03.2014	09.04.2014	8.265	510.2	22.68
3	12.03.2014	09.04.2014	8.346	524.3	23.30

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09.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.03.2014	09.04.2014	8.129	489.7	21.76
2	12.03.2014	09.04.2014	8.245	501.8	22.30
3	12.03.2014	09.04.2014	8.370	510.9	22.71

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2013-14



Date: 03.03.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Technical Manager (West), KRIDL, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/161/2013-14 Dated: 12.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

Note:

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2013-14

: 03.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/VO/161/2013-14 Dated: 12.12.2013
Date of Testing : 03.03.2014
Material : Sand



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	59	5.90	5.90	94.1	90-100
2.36	175	17.50	23.40	76.6	75-100
1.18	150	15.00	38.40	61.6	55-90
600 Micron	200	20.00	58.40	41.6	35-59
300 Micron	215	21.50	79.90	20.1	8-30
150 Micron	150	15.00	94.90	5.1	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

17.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.03.2014	17.04.2014	8.190	475.6	21.14
2	20.03.2014	17.04.2014	8.235	492.3	21.88
3	20.03.2014	17.04.2014	8.348	519.3	23.08

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

21.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.03.2014	21.04.2014	8.110	475.9	21.15
2	24.03.2014	21.04.2014	8.289	515.3	22.90
3	24.03.2014	21.04.2014	8.397	527.9	23.46

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2013-14



Date: 03.03.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Technical Manager (West), KRIDL, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/161/2013-14 Dated: 12.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2013-14

: 03.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Date of Testing : 03.03.2014

Material : 40mm Aggregates



Total Wt. of Aggregates in gms 10000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	255	2.55	2.55	97.45	95-100
20	5020	50.20	52.75	47.25	30-70
10	3545	35.45	88.20	11.80	10-35
4.75	1000	10.00	98.20	1.80	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2013-14



Date: 06.03.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Technical Manager (West), KRIDL, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads near Anjaneya Temple, Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/161/2013-14 Dated: 12.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2013-14



: 06.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Date of Testing : 06.03.2014
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	68	6.80	6.80	93.2	90-100
2.36	189	18.90	25.70	74.3	75-100
1.18	180	18.00	43.70	56.3	55-90
600 Micron	176	17.60	61.30	38.7	35-59
300 Micron	229	22.90	84.20	15.8	8-30
150 Micron	125	12.50	96.70	3.3	0-10

Note:

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2013-14



: 06.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Date of Testing : 06.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	150	1.50	1.50	98.50	95-100
20	6025	60.25	61.75	38.25	30-70
10	2515	25.15	86.90	13.10	10-35
4.75	1050	10.50	97.40	2.60	0-5

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AE 12

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ಶಿಕ್ಷಣ, ಇಂಜಿನಿಯರಿಂಗ್, ವಾಸ್ತುಶಿಲ್ಪ ಮತ್ತು
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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

07.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.03.2014	07.04.2014	8.129	476.5	21.18
2	10.03.2014	07.04.2014	8.269	496.3	22.06
3	10.03.2014	07.04.2014	8.310	516.3	22.95

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

14.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.03.2014	14.04.2014	8.279	482.5	21.44
2	17.03.2014	14.04.2014	8.380	506.4	22.51
3	17.03.2014	14.04.2014	8.416	518.3	23.04

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ATC

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2013-14

: 03.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Date of Testing : 03.03.2014
Material : Sand



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	59	5.90	5.90	94.1	90-100
2.36	175	17.50	23.40	76.6	75-100
1.18	150	15.00	38.40	61.6	55-90
600 Micron	200	20.00	58.40	41.6	35-59
300 Micron	215	21.50	79.90	20.1	8-30
150 Micron	150	15.00	94.90	5.1	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2013-14

: 03.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Date of Testing : 03.03.2014

Material : 40mm Aggregates



Total Wt. of Aggregates in gms 10000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	255	2.55	2.55	97.45	95-100
20	5020	50.20	52.75	47.25	30-70
10	3545	35.45	88.20	11.80	10-35
4.75	1000	10.00	98.20	1.80	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2013-14



Date: 06.03.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Technical Manager (West), KRIDL, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads near Anjaneya Temple, Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/VO/161/2013-14 Dated: 12.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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: 06.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Date of Testing : 06.03.2014
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	68	6.80	6.80	93.2	90-100
2.36	189	18.90	25.70	74.3	75-100
1.18	180	18.00	43.70	56.3	55-90
600 Micron	176	17.60	61.30	38.7	35-59
300 Micron	229	22.90	84.20	15.8	8-30
150 Micron	125	12.50	96.70	3.3	0-10

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: 06.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Date of Testing : 06.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	150	1.50	1.50	98.50	95-100
20	6025	60.25	61.75	38.25	30-70
10	2515	25.15	86.90	13.10	10-35
4.75	1050	10.50	97.40	2.60	0-5

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ಶಿಕ್ಷಣ ಕಾರ್ಯಕ್ರಮ, ಕಾರ್ಪೊರೇಷನ್
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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

07.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.03.2014	07.04.2014	8.129	476.5	21.18
2	10.03.2014	07.04.2014	8.269	496.3	22.06
3	10.03.2014	07.04.2014	8.310	516.3	22.95

Note:

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07.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.03.2014	07.04.2014	8.110	479.5	21.31
2	10.03.2014	07.04.2014	8.263	508.6	22.60
3	10.03.2014	07.04.2014	8.332	518.2	23.03

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

09.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Agency : Technical Manager (West), KRIDL, Bangalore.
 Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
 Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
 Sample ID : Road Concrete
 Size of cubes : 150mmx150mmx150mm
 Cross Sectional Area : 22500 mm²
 Technical Reference : IS: 516-1959 (Reaffirmed 2008)
 Grade of Concrete : M₂₀
 Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.03.2014	09.04.2014	8.130	485.5	21.58
2	12.03.2014	09.04.2014	8.265	510.2	22.68
3	12.03.2014	09.04.2014	8.346	524.3	23.30

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09.04.2014

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Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.03.2014	09.04.2014	8.129	489.7	21.76
2	12.03.2014	09.04.2014	8.245	501.8	22.30
3	12.03.2014	09.04.2014	8.370	510.9	22.71

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AGIL

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14.04.2014

TEST REPORT ON CONCRETE CUBES

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Agency : Technical Manager (West), KRIDL, Bangalore.
Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.03.2014	14.04.2014	8.279	482.5	21.44
2	17.03.2014	14.04.2014	8.380	506.4	22.51
3	17.03.2014	14.04.2014	8.416	518.3	23.04

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17.04.2014

TEST REPORT ON CONCRETE CUBES

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Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing cement concrete roads near Anjaneya Temple Shettyhalli in Ward No.12 of Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.03.2014	17.04.2014	8.190	475.6	21.14
2	20.03.2014	17.04.2014	8.235	492.3	21.88
3	20.03.2014	17.04.2014	8.348	519.3	23.08

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21.04.2014

TEST REPORT ON CONCRETE CUBES

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Agency : Technical Manager (West), KRIDL, Bangalore.
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Reference : EE/DD/WO/161/2013-14 Dated: 12.12.2013
Sample ID : Road Concrete
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Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.03.2014	21.04.2014	8.110	475.9	21.15
2	24.03.2014	21.04.2014	8.289	515.3	22.90
3	24.03.2014	21.04.2014	8.397	527.9	23.46

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